

Sin: (SOH) $\frac{\text{Opposite}}{\text{Hypotenuse}}$

Cos: (COH) $\frac{\text{Adjacent}}{\text{Hypotenuse}}$

Tan: (TOA) $\frac{\text{Opposite}}{\text{Adjacent}}$

Homework 64 - FORM A

SOHCAHTOA

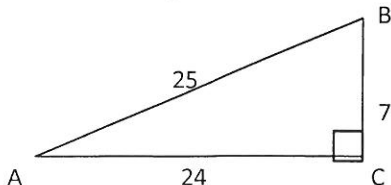
Directions: Show all your work.

Name _____

Period ____ Date _____

***REMEMBER* Final Answers must be reduced!**

1. Find each trigonometric ratio.



Example:

$\frac{7}{25}$

$\sin A = \frac{7}{25}$ $\sin B = \frac{24}{25}$

$\cos A = \frac{24}{25}$ $\cos B = \frac{7}{25}$

$\tan A = \frac{7}{24}$ $\tan B = \frac{24}{7}$

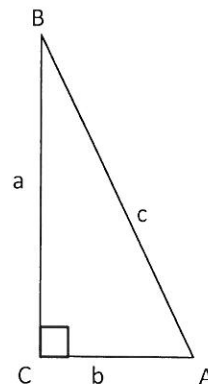
2. An angle in a right triangle has a measure θ . If $\cos \theta = \frac{4}{5}$, then $\tan \theta = ?$

3. Identify the opposite and adjacent legs to $\angle B$.

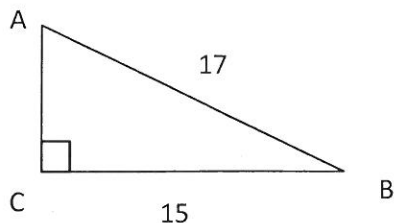
Opposite Leg:

Adjacent Leg:

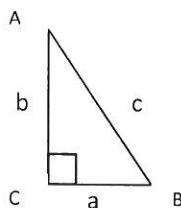
Hypotenuse:



4. In the figure below, $\angle C$ is a right angle, and a , b , and c represent the lengths of the sides of the right triangle. What is the tangent of $\angle A$?



5. Find each trigonometric ratio.



$\sin A = \frac{a}{c}$ $\sin B = \frac{b}{c}$

$\cos A = \frac{b}{c}$ $\cos B = \frac{a}{c}$

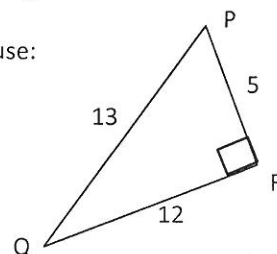
$\tan A = \frac{a}{b}$ $\tan B = \frac{b}{a}$

6. Identify the opposite and adjacent legs to $\angle P$.

Opposite Leg:

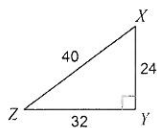
Adjacent Leg:

Hypotenuse:



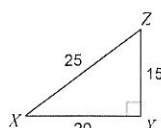
7. Find the value of the given trigonometric ratio.

$\sin X$



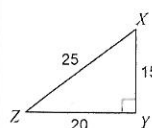
8. Find the value of the given trigonometric ratio.

$\tan Z$



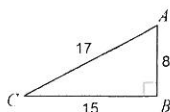
9. Find the value of the given trigonometric ratio.

$\sin Z$



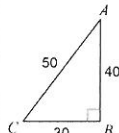
10. Find the value of the given trigonometric ratio.

$\tan C$



11. Find the value of the given trigonometric ratio.

$\cos A$



12. Find the value of the given trigonometric ratio.

$\cos C$

